

User activities: Army - AR  
Navy - AS, SH, MC  
Air Force - 19

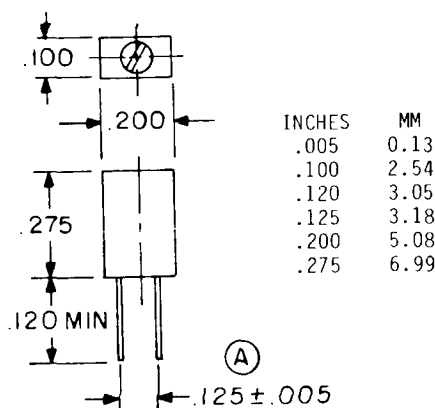
Review activities: Army - MI  
Navy - OS  
Air Force - 11, 17, 80  
DLA - ES

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FED. SUP CLASS  
5950

# RATINGS

Style LT11V  
Grade 2  
Class A  
Operating temperature range -55°C to +105°C  
Ambient temperature 90°C  
Temperature rise 15°C  
Power dissipation 200 mW max  
Dielectric withstanding voltages:  
Sea level 1,000 V rms min  
Reduced barometric pressure 200 V rms min  
Terminal pull 2 pounds min  
-1 thru -13 1 pound min  
-14 thru -17  
Tuning torque .005 -.15 in. oz.  
Stop torque .15 in. oz. max  
Altitude 70,000 feet  
Weight .200 gram max



## ELECTRICAL CHARACTERISTICS (initial)

Dash No. 1/	Type Designation	Inductance		Test Freq. MHz	Q Min. at L Max.	SRF Min. MHz	DC Res. at 25°C Max. Ohms	Rated Current Max. mA DC
		L Max. $\mu$ H	L Min. $\mu$ H					
-1	LT11V022	10.0	5.5	2.5	25	34	3.1	57
-2	" 023	13.0	6.5	2.5	25	30	3.3	53
-3	" 024	16.0	8.0	2.5	30	25	3.4	50
-4	" 025	20.0	10.0	2.5	30	20	3.5	43
-5	" 026	22.0	11.0	2.5	30	14	4.0	43
-6	" 027	30.0	15.0	2.5	30	10	4.5	40
-7	" 028	36.0	18.0	2.5	30	9	5.0	40
-8	" 029	47.0	24.0	2.5	30	6.5	5.7	39
-9	" 030	56.0	28.0	2.5	30	6.3	7.0	35
-10	" 031	68.0	34.0	2.5	30	6.2	8.0	30
-11	" 032	75.0	38.0	2.5	30	5.9	9.0	30
-12	" 033	86.0	43.0	2.5	30	5.6	10.0	28
-13	" 034	100.0	50.0	.79	28	5.4	12.0	27
-14	" 035	120.0	60.0	.79	25	4.4	14.0	25
-15	" 036	470.0	240.0	.79	20	2.1	30.0	16
-16	" 037	680.0	340.0	.79	20	2.0	35.0	15
-17	LT11V038	1 mH	.5 mH	.79	20	1.1	75.0	11

1/ The dash number added to the MS Military Standard number constitutes the MS part number: for example MS53230-1.

(A) denotes change

P.A. ARMY-ER	International interest	TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO-MINIATURE, (FERRITE CORE), TYPES LT11V022 TO LT11V038, INCL.	MILITARY STANDARD
Other Cust AF-85 NAVY-EC			MS53230
Procurement Specification MIL-C-15305		SUPERSEDES:	PAGE 1 OF 3

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1 MAY 73

5950-0655-2

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APPROVED 18 AUG 76 REVISED (A) 31 October 1985

AFN - AK  
Navy - AS, SH, MC  
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ELECTRICAL CHARACTERISTICS (final)				
Inspection group	Allowable variations from initial measurements			
	Inductance	DCR	SRF	Q
	Percent		Percent	Percent
Qualification				
Group II	+5	---	---	-10
Group III	+5	+(3% +.001 ohm)	-15	-20
Group IV	+5	+(3% +.001 ohm)	-10	-20
Quality				
Conformance				
Inspection				
Group C				
Subgroup I	+5	---	---	-10
Subgroup II	+5	+(3% +.001 ohm)	-10	-20
Subgroup III	+5	+(3% +.001 ohm)	-15	-20

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is +.003 (0.08 mm).
4. Lead material: .017 x .025 (0.43 mm x 0.64 mm) copper - .120 (3.05 mm) long.
5. The test fixture in the diagram following shall be used for electrical measurements. Inductance values are effective inductance as indicated on a HP260A, HP190A or equivalent Q meter, when tested in the test fixture. Add 5% to Q reading to account for loss of Q in the test jig.
6. Polarization during the moisture resistance test is not applicable.
7. Shock, specified pulse, method 213, test condition I, is applicable.
8. Coils are held rigidly by the body during vibration and mechanical shock testing.
9. Barometric pressure test (test condition C) is applicable.
10. Resistance to soldering heat test, per MIL-STD-202, method 216, test condition B, is applicable.
11. For dielectric withstanding voltage, barometric pressure and insulation resistance units shall be placed on flat metal plate with leads insulated from surface. Measurement of dielectric withstanding voltage, barometric pressure and insulation resistance shall be between the leads of the coil connected together and the metal plate.
12. Screw core assembly shall be set at maximum specified inductance value indicated in the electrical characteristics table (initial), prior to all inspection tests. This setting shall not be changed until electrical characteristics (final) measurements are performed.
13. The marking shall be as specified in MIL-C-15305 except that the marking shall be on the unit package or container.
14. This standard takes precedence over the procurement specification referenced herein.
15. Referenced document shall be the issue in effect on the date of invitation for bid.

APPROVED 18 AUG 76 REVISED (A) FOR CHANGES SEE PAGE 1

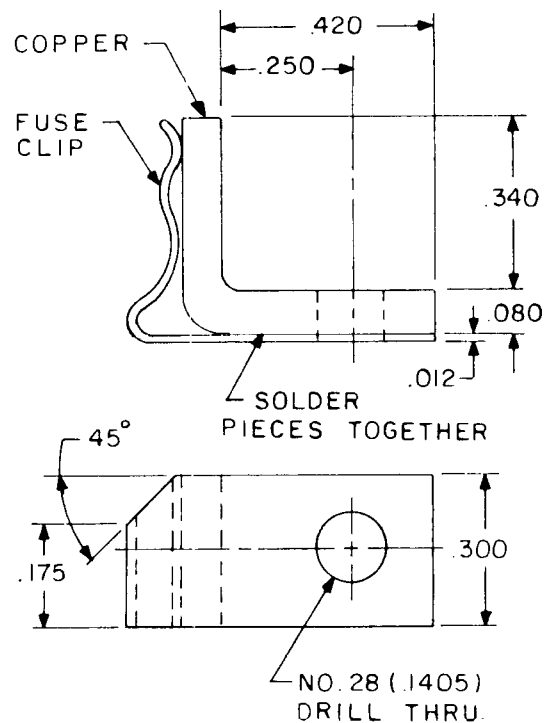
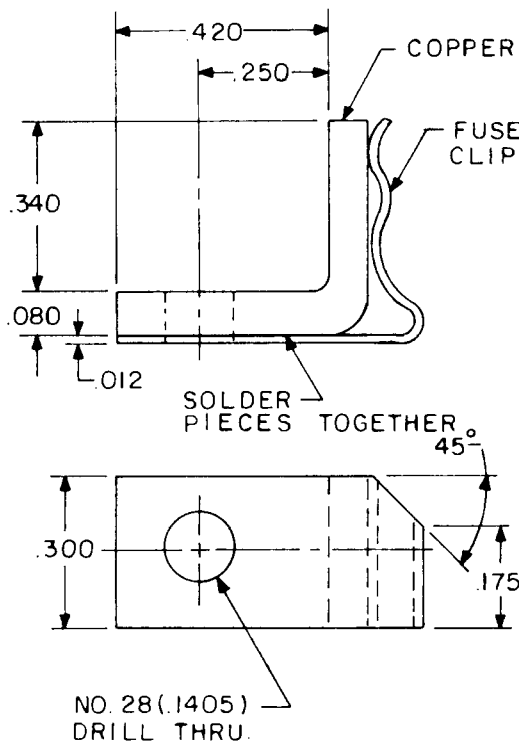
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Other Cust AF-85 NAVY-EC			MS53230
Procurement Specification MIL-C-15305	SUPERSEDES:		PAGE 2 OF 3

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# TEST FIXTURES FOR ELECTRICAL MEASUREMENTS

SIDE B

INCHES	MM
.012	0.30
.080	2.03
.1405	3.570
.175	4.45
.250	6.35
.300	7.62
.340	8.64
.420	10.67

SIDE A

P.A ARMY-ER

International  
interest

TITLE

COILS, RADIO FREQUENCY,  
ENCAPSULATED, VARIABLE, MICRO-  
MINIATURE, (FERRITE CORE), TYPES  
LT11V022 TO LT11V038, INCL.

MILITARY STANDARD

Other Cust  
AF-85  
NAVY-EC

MS53230

Procurement Specification  
MIL-C-15305

SUPERSEDES:

PAGE 3 OF 3

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